VEGA PROCESSOR

THEJAS32

THEJAS32 Single Core — SRAM — TIMER — SPI — ROM — I2C — PWM — UART

THEJAS32
32-BIT MICROPROCESSOR BASED LOW POWER IoT SoC

OVERVIEW

THEJAS32 is a low-power SoC for robust embedded applications such as Sensor Fusion, Smart Metering, Wearable electronics, IoT devices, etc. The SoC integrates the power of the VEGA ET1031 32-bit Microprocessor with various communication interface /peripheral IPs from the ASTRA portfolio in LQFP 128 package.

FEATURES

- **VEGA ET1031 Microprocessor**
  - 32-bit RISC-V ISA
  - 3-stage in-order pipeline
  - Harvard architecture
  - High-performance multiply / divide unit
  - Low interrupt latency
  - Vectored interrupt support
- **Clock frequency up to 100MHz**
- **3.3V IO Voltage**
- **Up to 2MB Boot Flash via SPI**
- **256 KB SRAM**
- **4 x SPI, 3 x I2C, 3 x UART**
- **32 x GPIO, 8 x PWM**
- **Low Power Operation**
- **128-Pin LQFP Package**

TARGET APPLICATIONS

- Sensor fusion
- Smart Meter
- System supervisors
- Remote sensors
- Small IoT devices
- Wearable devices
- Motor drives
- Electronic Toys
- Electronic education devices
- Inverters
- Industrial networking
- Legacy 8/16-bit applications

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